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Operator's Manual

IMOtion!-iGO 1 INTRODUCTION

Thank you for purchasing the *IMOtion!-iGO* "@*Motion System*" developed by *IMON* in cooperation with *IMOtion!* for distribution in North America, South America and the United Kingdom. This manual will guide you through the setup, operation, and maintenance of *IMOtion!-iGO* the ultimate multi-game motion system for arcade environments. This unit is different from any other arcade machine you have ever owned. *IMOtion!-iGO* is a fully interactive coin-operated motion simulator that creates a virtual reality environment and provides a truly unique game experience for players. Capable of any motion through 2.5 degrees of freedom (also known as D.O.F.) movement (pitch, roll, and hybrid heave), this system enables realistic simulation needed for any software program. *IMOtion!-iGO* is powered by electric motors, rather than higher maintenance pneumatic or hydraulic actuators that have been used to power most motion simulators in the past. The motion system is powered by *IMON*'s patented design; a powerful, mini-motion base platform with physics-based motion dynamics, known as the Hex-Glider. Players will experience realism like never before as they "feel" all the exciting action they see occurring on screen, in total synchronization with game play.

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One of *IMOtion!-iGO's* most unique features is that the platform has the capability to run multiple games or motion rides on the same unit. Future titles will be easily and quickly added, giving the player many games to choose from by using our player-selectable menu.

Together, these factors combine to offer you the most advanced, economical and exciting motion arcade system available!

Sent Questions and Comments to:	Sent Questions and Comments to:
Customer Support in other area	Customer Support in North America & U.K.
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<u>IMOtion!-iGO</u> 2 SPECIFICATIONS

SPECIFICATIONS OF IMOtion!-iGO @MOTION SYSTEM

Each *IMOtion!-iGO* is composed of one complete unit, known as the **Motion Base**. The dimensions given are for *IMOtion!-iGO* installed footprint.

IMON / IMOtion!

- *IMOtion!-iGO @Motion System* Unit
 - o Minimum Installed Footprint
 - US: 65" x 49"
 - Metric: 1.66m x 1.26m

2.1 *IMOtion!-iGO* MOTION BASE

IMOtion!-iGO Motion Base Simulator

IMOtion !- iGO Motion Simulator		
Installed Dimensions / Weight (LxWxH)	• 65" x 49"x 82" / 1,278 lbs	
	• 166 x 126 x 209cm / 498 kg	
Shipping Dimensions (LyWyH)	• 65" x 50" x 80" / 1100 lbs	
	• 165 x 127 x 203 cm / 580 kg	
Motion system	• 2.5 degree of freedom (D.O.F.) mini motion	
	base: AC-powered, motor-driven actuators	
	• 2 button function flight joystick	
Control inputs/feedback	• 2 speed direction gear shifter	
	• Motion stop switch	
Player Weight Limit	• 220 lbs.	
Center of Gravity	• Directly over Two Axis	
Motor Pedestal Dimension	• Equilateral triangle, approx. 12" front	

IMON Internet Motion Navigator C IMOtion!-iGO IMO	Corporations, Inc. N / IMOtion! Operator's Manual
Motors	• (3) 2 @ .54 Hp/ 1 @ .09 AC motors
Power Requirements – Plugs located on rear of display cabinet as input 2.	• See 2.4 Power requirements USA & EURO.
Pad	• Player Pad
Chair	 Deluxe Sports car seat Additional speakers built into chair for surround sound effect
Audio	• In chair – 8 watts RMS x 2, 1 ohm
Shipping Dimensions (L x W x H)	 70" x 50" x 92" / 1278 lbs 177 x 127 x 234 cm / 580 kg
Monitor Specifications	 32" VGA LCD Monitor 15pin DB Connection
Audio	• 8 watts RMS x 2, 4 ohm
Power Requirements USA , input at rear of panel.	• Input 1: 110 VAC, 16 Amps, 50/60 Hz
Power Requirements EURO , input at rear of panel.	• Input 1: 220 VAC, 10 Amps, 50/60 Hz
Computer System Specifications:	 Windows XP Operating System High Resolution Graphics Accelerator Card.

3 INSTALLATION

3.1 SERVICE KIT

IMOtion!-iGO

The following items should be included with the shipment of your *IMOtion!-iGO*:

Service Kit		
Description	Qty	
<i>IMOtion!-iGO</i> Operator's Manual		
Cabinet access keys	5	

IMON / IMOtion!

3.2 SET UP INSTRUCTIONS

3.2.1 PRE-INSTALL PREREQUISITES / CAUTIONS

IMOtion!-iGO is designed for indoor use only. To ensure trouble-free and safe operation, the following conditions are recommended by the factory:

- The game must be located out of direct exposure to sunlight, high humidity, dust, salt mist, high heat, or extreme cold. If installed in an unusually hot location, allow additional clearance between ventilation slots in the game and any structure or object that would tend to restrict air circulation.
- 2. The motion system produces forces on the motion base, which may cause it to move around on the floor if not properly installed. Before operating the game, make sure the brackets are tightly installed. If you have questions regarding the suitability of any mounting or installation requirement, contact tech support at *IMON / IMOtion!* before proceeding.



WARNING!!!

AVOID FIRE HAZARD: Do not install in an area such that the game would be an obstacle in case of an emergency (i.e. near fire equipment or emergency exits.)













Do not plug the power until the all items are ticked in confirmation list.

	Confirmation List		
	Item	Tick after confirmation	
A.	There is no gap on four shock absorber stands		
В.	Separation of control box and base plate and make sure they are		
	leveled		
C.	Fixtures at both sides are removed		
D.	Tie rapes which fix the monitor are cut down		
Е.	Footrest is fixed		
F.	After item A~E are confirmed, plug the power.		

1. Measure the AC voltage line (LINE to GND and LINE to NEUT) and verify that it is 110~125VAC in America, 100VAC in Japan and 210~240VAC in Europe and West Asia. NEUT to GND voltage should be less than 1 VAC.



- **NOTE:** This unit has single power cord! The motion base requires one dedicated 15-Amp circuit for 110~125VAC power source, 16-Amp for 100VAC power source and 10-Amp for 210~240VAC power source! No other appliance or game should be shared on this circuit.
 - 2. Turn on the main power switch located on the back of the panel box power door. Use the key to turn on unit. Ensure that the unit is fully powered and the fans inside the base are operating properly.
 - **3.** Unit will perform self check after power is turned on.

3.2.3 DISMANTLING PROCEDURE

- **1.** Turn off power switch by using the same key to turn unit off at the switch panel located in back on the right hand side of the Panel Box.
- Unplug the power cables to ensure there is no electrical power reaching the *IMOtion!-iGO* unit.
- **3.** Lower monitor (if raised) and secure in the locked position.
- 4. After raising levelers to the up-most position, motion base is now ready for repacking.

3.2.4 REPACKING PROCEDURE

1. The motion base has a custom-built pallet for proper fit when transporting. Locate pallet and load the unit onto it using the reverse of unpacking procedure.

2. Repack the unit with foam and wrapping.

IMOtion!-iGO

- **3.** Repack the foot step with the wood stand. (Use a folk lift to lift up the unit, than place the wood stand under the foot step.)
- **4.** Place the cardboard box on the pallet with all the nuts lock in place with the top cover back on the box.
- **5.** Secure the cardboard box to the pallet using PVC banding straps.

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3.3 STANDARD HANDLING PROCEDURES

- **1.** Before replacing any electrical parts or parts on the motion system, turn the AC power off and unplug the game. Allow enough time for any stored electrical current to cease flowing through unit.
- 2. Do not attempt to repair or otherwise alter the computer assembly. Your service check should be restricted to only examination of the surrounding cables for loose connections. If you suspect there is a problem with the *IMOtion!-iGO* computer system, contact *IMOtion!* tech support before proceeding

IMPORTANT: Do not plug in a keyboard or mouse unless instructed in the manual!!!

- 3. <u>The display cabinet has components that produce high voltage and are</u> <u>dangerous for the untrained</u>. If a problem occurs with the monitor, only authorized personnel may perform repairs.
- **4.** Use extreme care whenever handling the Game Pod on the motion base. Rough handling may adversely affect the convergence and projection of the 32" LCD display monitor. Repairs resulting from rough handling are not covered under the manufacturer's warranty.
- **5.** Do not tamper with the original wiring configuration, or the positioning of ferrite shields and clamps. Alteration of game wiring may result in faulty operation and also void warranty.
- 6. Always return levelers to the extreme UP position before moving the unit.
- For safety reasons, <u>always</u> handle the unit with at least two people during moving or installation.

<u>IMON / IMOtion!</u> **Operator's Manual**

IMOtion!-iGO DOLLAR 3.4 BILL ACCEPTOR **INSTALLATION INSTRUCTIONS(only** for American)

1. The *IMOtion!-iGO* unit has been tested and configured for use with the Coinco MC 2600 series using housing connector (as shown in the below figure, Fig. 3-1, 3-2, 3-3). It is important to note that this system requires a bill acceptor that is 24 volt DC. Please do not modify wire or connectors by yourself. This will cause a serious problem. The definition of the connector is shown as below Fig. 3-2.



Fig. 3-1 Open Box at the left side of cockpit





Operator's Manual



Fig. 3-3 Coinco MC 2600 series connector



Fig. 3-4 The definition of the connector

3.5 COIN ACCEPTOR

The *IMOtion!-iGO* unit has been tested and configured to work with the EU2-B model by <u>Coinsolve Technology Company Ltd</u>. For instructions setting the coin acceptor, see Section 4.3 in the Operator Menu.

IMPORTANT: Any coin acceptor used with IMOtion!-iGO must be 12 volt DC.

IMOtion!-iGO 3.6 CARD READER

The way of the card reader connect is shown as Fig. 3-3, and notice a following item:

IMON / IMOtion!

1. The card reader contact is opened before swiping.

2.Contact is closed at least 80 ms after swiping.



Fig. 3-5 The card reader connect

3.7 JOYSTICK

The joystick has been pre-calibrated by the factory. The joystick should not need manual re-calibration during normal operation, since your *IMOtion!-iGO* features a unique automatic joystick calibration at start-up and shut-down. If joystick ever needs replacement, calibration may be necessary. The calibration procedure is described in Section 4.3.3.

4 *IMOtion!-iGO* SYSTEM

4.1 INTRODUCTION

Your *IMOtion!-iGO* is designed for simple installation as an easy "plug and play" motion system.

<u>IMOtion!-iGO</u> <u>IMON / IMOtion!</u>

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4.2 OPERATOR POWER PANEL

- **1.** The Service Door is used to access the service area and power panel.
- 2. The Service Door is located at the rear of the motion base, behind the Game Pod.
- 3. The Service Door <u>must be locked</u> at all times and <u>accessed by authorized and</u> <u>trained personnel only</u>.

4.3 OPERATOR MENU

To access OPERATOR MENU, turn the main power back ON. Find the OPERATOR SWITCH located inside the coin box door and move to "ON" position (Fig.4-1). And continue in OPERATOR MENU mode.

From the OPERATOR MENU, you have direct access to game and operator settings. From sub-menus (listed below), you have access to general game controls. The definitions of select buttons are labeled in the figure below figure (Fig. 4-2).



Operator's Manual

IMON / IMOtion! Fig. 4-1 Operator Switch



Fig. 4-2 Operator Menu

4.3.1 COIN OPTIONS

IMOtion!-iGO

The "Coin Options" sub-menu (Fig. 4-3) allows you to set all coin options on your *IMOtion!-iGO*.

IMOtion!-iGO	IMON / IMOtion!	Operator's Manua	al
			2
Press "+" or "-" button to setting.	Coin Options		-
E.	Coin per Play	4	诸
Shine a	Coin per Continue	4	State of
an and a second	Currency Type	Coin / Bill	No.
	Coin per Pulse	1	
	Coin Acceptor Training		
	Exit & Save		R.C.
220			12
4 MP			ñ.
		_	
atuur		_	then a
			100
Color Color	and the second second second		
M.	A THE ADDRESS OF A	Lawsey &	Con It

Fig. 4-3 "Coin Options" sub-menu

- 1. "*Coins per Play*" allow you to set how many coins it will take for a player to start a game. The factory default setting value is 4 coins per play.
- **2.** *"Coins per Continue"* allow you to charge a different price for continue-play than starting game play. The factory default setting value is 4 coins per play.
- 3. "Currency Type" is not to select country's type of currency or denomination (does not matter if it is American, Canadian, Mexican or United Kingdom). This function lets you select what form of currency you wish to accept in your IMOtion!-iGO. The factory default setting is Coin/Bill (combined into one setting) and the only other current setting is for Debit Cards. Coin acceptor is standard equipment. Bill acceptors may be purchased directly from Coinco or IMOtion!.
- "Coins per Pulse" allow you to adapt different currency acceptors that are pulse specific to your *IMOtion!-iGO*. The default value is 1.
- **5.** While you want training your Coin Acceptor, select "*Coin Accepter Training*". The training steps as follow:

IMOtion!-iGO

IMON / IMOtion! Operator's Manual

Step 1: Open the coin door (Fig. 4-6) and the control panel box. Then connect the Coin Acceptor and the IPC RS232 port (Fig. 4-5) by using a coin training connector (Fig. 4-4).



Fig. 4-4 Coin Training connector



Fig. 4-5 RS232 port



Fig. 4-6 Coin door

Step 2: System will click on "Teach Coin Selector" and System will set all parameter completion automatically. (Fig. 4-7 and Fig.4-8).

COINSOLVE Com Selector programmer		
	Teach Coin Selector	
	Edit Coin Selector	
	Channel Calibration	
	To calibrate channels for this on_line Coin Selector	
	Exit	
Status:		
100.21000		

Fig. 4-7 Coin Training window

IMOtion!-iGO	MON / IMOtion!	Operator's Manual
Out of Mode: 2 Pole output with INHIBIT Instat Level: Low Inhibit	Lignal Time: (Spec Time) Times Bcale A: U Timer Scale B: U	× 2 (m2)
Benk A Price A: 4 31 Multiply Factor A: 4 31 Divide Factor A: 4 31 1	Bank B Price B 4	11 17
Coin 1: Image: Figure 10 -	tor Value ToFA ToFB ToFC (0-255) (0-15) (0-15) (0-15) Coin 1: (0-15) (0-15) (0-15) Coin 2: (0-15) (0-15) (0-15) Toff Toff Toff Toff Toff Toff Toff Toff	Disable Separator (Yes/No) (0-3) No •0 •
Cenn 3; • • 0 10 * 5 • No • 0 - 0 10 * 5 • No * 0 10 * 5 × 0 * 0 10 * 5 × 0 * 0 10 * 5 × 0 </td <td>Coin 3: 4 > 0 10 +5 ≤ Coin 4: 4 > 0 10 +5 ≤ Coin 5: 4 > 0 10 +5 ≤</td> <td></td>	Coin 3: 4 > 0 10 +5 ≤ Coin 4: 4 > 0 10 +5 ≤ Coin 5: 4 > 0 10 +5 ≤	
	efault Value Exit	

Fig. 4-8 Coin Training Setting

Step 3: For complete accuracy and proper function, you will need to insert the coin 20 times. When finished, please press "Select" button on the Joystick to download parameter into coin accepter. The system goes back to "Operator Menu".

e fanglag		
-Eark A	-Cark D	2017-2018
Cart 1 (Diail)	Car' \$2 boon	
Core 2 80 Invent	51 r 2 4 2 Insert	
Card St. Beari	Dar 2 \$ martine	
Dan 4 50 Insel	Cas 4 8 2 Inant	
Card so insen	Dord \$ 2 lesen	
Curs 50 Invati	Car 6 \$ 0 baar	
Insert: 0	of 20	
Can		
Program to I	Cain Selector exit	
Insert 20 Coins I		

Fig. 4-9 Coin Training Sampling

4.3.2 GAME OPTIONS

IMOtion!-iGO

"*Game Options*" section offers settings that you can adjust for each individual software title which is installed on your *IMOtion!-iGO*.



IMON / IMOtion!

Fig. 4-10 "Game Options" sub-menu

- 1. "Game Select" using the "+" or "-" button to select individual game title for adjustment of settings.
- 2. The *"Game Enabled*" setting determines whether or not the game will be available from the multi-game menu as a player-selectable title.
- "Game Time" can be adjusted using the "+" or "-" buttons, in increments of 15 seconds.
 Factory default settings are 3 minutes of game time.
- **4.** *"Continue Time"* can be adjusted using the "+" or "-" buttons, allowing players extra time after play ends to insert additional coins to continue, adjustable in increments of 1 second.
- **5.** *"Continue Timer Length"* adjusts the amount of time the player has to continue playing after their game has ended. This can be adjusted by using the "+" or "-" buttons.

- IMOtion!-iGO IMON / IMOtion!
- 6. "Driving Control" setting determines the joystick control mode is "Easy" or "Advanced".

Operator's Manual

- **7.** "Violence Level" setting the "Red Level" which is to include soldiers in the game or only tanks in the game by choosing "Green Level".
- 8. "Bonus Time" giving player bonus time while they achieve a mission.
- 9. "Clear High Scores" to clear the information on the score board.
 - **6.1** In "**Easy**" mode, the user can use *joystick handle* to move the gun/cannon sight to target the enemies and then the tank body will automatically follow the target with some delay. The gear shift is used to control the forward/backward direction of the leader tank in "**Easy**" mode.
 - 6.2 In "Advanced" mode, the user can use *hat switch* to move the gun/cannon sight to target the enemies and the left/right direction of leader tank is controlled by the joystick handle. Also the gear shift is used to control the forward/backward direction of the leader tank in "Advanced" mode.



Fig. 4-11 joystick

- 10. "Violence Level" setting can adjust the game mode
- 11. "Clear High Scores" will erase all high scores and replace with the default settings.(Fig. 4-12)

IMOtion!-iGO

IMON / IMOtion! Operator's Manual

Fig. 4-12 "Clear High Scores" Window

- 12. "Coin Count" shows accumulated counts of coins having been thrown in. This item can't be chosen or reset.
- **13.**"*FreePlayKey Count*" shows accumulated counts Free Play Key has been pressed. This item can't be chosen or reset.



4.3.3 JOYSTICK SETTING

Fig. 4-12 "Joystick Setting" sub-menu



Fig 4-13 Joystick calibrate

To calibrate the joystick, follow the directions on the screen, using these steps: (REMEMBER, these steps are only necessary after replacing joystick)

- **1.** Hold the "+" button on the Joystick to calibrate the joystick.
- 2. Keep the joystick in the center, and then press the "+" button.(Fig. 4-13)
- **3.** Turn the joystick a round completely, and then press the "-" button.
- 4. Then Press the "select" button to exit Joystick Setting menu.
- 5. You may need to go back to the beginning of procedure and repeat from step 1.
- 6. If you want to leave the joystick setting during process, hold the "Exit" button.

4.3.4 LANGUAGE SETTING

IMON / IMOtion!	Operator's Manual
Language Set	ting
Language	English
Exit & Save	
	IMON / IMOtion!

Fig. 4-13 "Language Setting" sub-menu

Language can be adjusted using the "+" or "-" buttons to change game language. Currently, the choices of language are English and Russian.

Operator's Manual

4.3.5 SYSTEM TIME SETTING

IMOtion!-iGO



IMON / IMOtion!

Fig. 4-14 "System time Setting" sub-menu

Setting the system time can be accomplished using the "Up" or "Down" to choose, followed by the "+" or "-" buttons to change date or time. Time is displayed in 24 hour or military time.

4.3.6 VOLUME SETTING

IMOtion!-iGO



IMON / IMOtion!

Fig 4-15 "Volume Setting" sub-menu

"*Volume setting*" can adjust the system volume. Or you can adjust the volume on the Amplifier in the control panel Box.



4.3.7 DEVICE TEST

Fig. 4-16 "Device Test" sub-menu

"Device Test" can test whether "Coin Acceptor, Passenger STOP, Seat Belt" can work or not.

IMOtion!-iGOIMON / IMOtion!4.3.8SOFTWARE UPGRADE

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Any software upgrades and/or new software game titles will be downloaded to your *IMOtion!-iGO* through the use of USB Flash Disk provided by your distributor or IMOtion!. The following explains this simple procedure, found in the Operator Menu.

1. Locate the system's IPC (Industrial PC): Referring to Fig. 4-17, open the rear Service Door of the Control Panel Box, you can see the IPC is at the lower right corner.



Fig. 4-17 locate the system's IPC

IMOtion!-iGO

- 2. Plug in the USB Flash Disk. (Only use the USB Flash Disk provided by IMOtion! or your distributor to upgrade/download the software. The USB Flash Disk from unauthorized sources might seriously damage the system.)
 - On Operator Menu (please refer to Fig. 4-2), press the "select" button on the joystick to select "Software Upgrade" sub-menu.
 - **4.** Press the *"select"* button on the joystick (Fig. 4-18), and your software system will begin to upgrade/download the software automatically.
 - 5. Progress will be indicated on screen and you will be notified when download is complete (Fig. 4-19, Fig 4-20). (If you didn't plug the USB Flash Disk onto the IPC, it will display an "Upgrade fails" window (Fig. 4-21).)
 - If you wish to cancel upgrade process, press the"+" button to exit "Software Upgrade" sub-menu.



Fig. 4-18 "Software Upgrade" sub-menu



Fig. 4-19 "Software Upgrading" Window



Fig. 4-20 "Upgrade Success" Window



Fig. 4-21 Upgrade fails

4.3.9 SHUTDOWN SYSTEM

IT IS HIGHLY RECOMMENDED THAT THE PROPER SHUTDOWN PROCEDURE FOR *X2* [™]/ *iGO* BE FOLLOWED BY INDIVIDUALLY POWERING DOWN THIS UNIT.

- Highlight the "*Shutdown System*" in the operator menu (please refer to Fig. 4-2).
- 2. Press the *"select"* button on the joystick to choose to Shutdown, so computer can systematically close (Fig.4-22).
- **3.** Finally, turn the "*power switch*" on the rear back door panel to the OFF position with the key. Now unit is properly shutdown.



Fig. 4-22 "Shutdown System" Window

4.3.10 STATISTIC

The information related to playing game is given.

- **1.** "Coin Count" to show the amount coins is inserted.
- 2. "Free Play Count" to show the amount times of Free Play has been pressed.
- **3.** "Total Play" to show the amount times of game has been played (Total Play = Starts + Continues).
- **4.** "Starts" to shows the amount of start times.
- **5.** "Continues" to shows the amount of continue times.
- **6.** "Average Time per Credit" to show the average time per one coin.
- 7. "Average Time per Player" the show the average time per one player.
- 8. "Clear Statistic" to clear information in "Statistic" (all value is zero after clear)



Fig. 4-23 "Statistic" window

4.3.11 **RESET**

If you do not like the value which you set, Please select Reset and press "select" button, and then system will ask you "YES" or "NO". If you press "YES", and then all



Fig. 4-23 Reset System window

Operator's Manual

IMOtion!-iGO 4.3.12 EXIT

To exit "**Operator Menu**", turn the "**Operator Switch**" inside the coin door to the OFF position (Fig 4-24). The program will enter game mode immediately and resume by loading game on screen.



IMON / IMOtion!

Fig. 4-24 Operator Switch

4.4 PLAYER GAME SELECT MENU

When more than one game or attraction is enabled on *IMOtion!-iGO*, players can choose which game or attraction they want to play. The graphic below details this screen. Game selection is made by moving the joystick right or left, pulling the trigger to start the game when the desired attraction is in the center of the screen.

NOTE: If operator disabled some game in the Operator Menu, the game will not be selected in the "GAME SELECT" menu.



Fig. 4-25 "GAME SELECT" Menu
IMON Internet Motion Navigator Corporations, Inc.IMOtion!-iGOIMON / IMOtion!

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5 MAINTENANCE AND DIAGNOSTIC

(VERY IMPORTANT! Failure to follow proper maintenance/inspection schedule can void one-year

manufacturer warranty)

5.1 INSPECTION SCHEDULE

Item	Task	Frequency	Comments
Game Pod	Visually inspect for any marks, cracks, etc. Clean and/or repair as necessary.	Daily	CAUTION! Use only mild detergent cleaning solutions approved for use on Plexiglas. Do not use chemical solvents or any cleaners containing abrasives or harsh chemicals.
Motion Test	Unit will automatically perform homing procedure (returning to center position) during start-up	Daily	This function will move the unit forward to the most extended position and then back to level position for player to get in and out of the unit.
Cooling Fans	 Verify that the two fans located in power panel and at the base of the Game Pod are working. Clean all ventilation grills/filters. Verify that all fans within the computer are working properly. Clean all ventilation grills/filters. Verify that the four fans on both sides of the Power Panel and base are functional. 	Monthly	It is essential to maintain proper ventilation to the display cabinet, the motion base, and the computer. Failure to do so may cause overheating and decrease the performance and/or the life span of your <i>IMOtion!-iGO</i> .

5.2 MOTION BASE MAINTENANCE

5.2.1 CALIBRATION TEST PROCESURE

1. Unit will automatically perform a System Test any time power is turned on.



WARNING!!! PREVENT INJURY OR DEATH: <u>Never open any of the control boxes or</u> <u>power boxes</u>. These boxes are 110V/220V and attempts to improperly service by unqualified technicians may cause serious injury or death. Call tech support or bring to local distributor. For recommended safe handling, the power must be off for at least 60 seconds prior to moving or servicing. For safest handling, unplug *IMOtion!-iGO*'s main power plug.

IMOtion!-iGO 6 TROUBLESHOOTING

6.1 LAYOUT OF THE CONTROL PANEL BOX UNIT

6.1.1 FIGURE REPRESENTATION

Figure6-1 shows its external configure exposition, Fig.6-2 presents the layout of the control panel and Fig.6-3 indicates it's internal configure exposition.

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Fig. 6-1 Control panel box external configuration diagram



Fig. 6-2 Layout of the control panel



Fig. 6-3 the internal configuration diagram of control panel box

Note: A transformer is required in the case that the power source is 100V-120V.

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IMOtion!-iGO 6.1.2 DEVICES DEFINITTIONS OF CONTROL PANEL BOX

The devices definitions of Control panel box are listed in the following Table.

Device of control panel				
Name	Spec	Part NO.		
EMI Filter	110/250VAC 50~60HZ 10A	EMI		
Ground Bar	21 PORTS	GR		
No fuse breaker	2P16A	N00		
No fuse breaker	2P10A	N0		
No fuse breaker	1P4A	N1		
No fuse breaker	1P1A	N2		
No fuse breaker	1P1A	N3		
No fuse breaker	1P4A	N4		
No fuse breaker	1P6A	N5		
No fuse breaker	1P4A	N6		
No fuse breaker	1P4A	N7		
No fuse breaker	1P4A	N8		
No fuse breaker	1P4A	N9		
No fuse breaker	1P4A	N10		
Magnetic contact	Coil power 24VDC/ Three main contacts a / Auxiliary contact 1a1b /220VAC 5A	M2		
Magnetic contact	Coil power 24VDC/ Three main contacts a / Auxiliary contact 1a1b /220VAC 5A	M3		
Magnetic contact	Coil power 24VDC/ Three main contacts a / Auxiliary contact 1a1b /220VAC 5A	M4		
Auxiliary contact	2a			
Auxiliary contact	Auxiliary contact for breaker/1a1b	OF		
RELAY	AC220V/2a2b	A0		
Socket for relay	For relay	A0		
Socket for fuse	1P10A	FO		
Fuse	0.5A~6A	FO		
Switch with key	22φ/1a1b	POWER ON		
Switch with key	22φ/1a1b	POWER OFF		
Push button	22φ/1a1b	EMERGENCY STOP		
Pilot	Green/24VDC	POWER LED		
Terminal	4 Ports	TB		

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Grounding terminal	2 Ports/Green	GB
Power supply	I/P : 100~240VAC 2.0A 50~60HZ O/P : 24VDC 3.0A 72W	P1
Power supply	I/P : 100~240VAC 0.7A 50~60HZ O/P : 12VDC 2.08A 25W	P2
Power supply	I/P : 100~240VAC 2.5A 50~60HZ O/P : 24VDC 6.0A 12V 3.0A 180W	Р3
Power supply	I/P : 100~240VAC 0.7A 50~60HZ O/P : 12VDC 2.08A 25W	P4
Power supply	I/P : 100~240VAC 5.0A 50~60HZ O/P : 24VDC 5.0A 120W	Р5
Power supply	I/P : 100~240VAC 5.0A 50~60HZ O/P : 24VDC 5.0A 120W	Рб
Power supply	I/P : 100~240VAC 2.0A 50~60HZ O/P : 24VDC 3.0A 72W	P7
Power supply	I/P : 100~240VAC 0.5A 50~60HZ O/P : 12VDC 1.5A 18W	Р8
Fan	230VAC/50~60HZ/17W	FAN
Filter	Plastic Fan Filter Kit	FILTER
Amplifier	2.1 Channels /3W+3W / SUB 10W	AMP
BIT Controller	Micro-controller	BIT
Transformer	30VA/ INOUT 210-220-230 / OUTPUT 110V	T1
Transformer	1800VA/ INPUT 0-100-120/ OUTPUT 0- 220	Τ2
UPS	450W/ 1 Minute /Input 200~240VAC/Output 200~240VAC	UPS
Servo amplifier	3 Phase /220VAC/400W	DR1
Servo amplifier	3 Phase /220VAC/400W	DR2
Control board	IMON-Control-Daughter-V2	IMON-Control-Daughter-V2
Fan PCB	4 Channels	PF-LAY OUT
Fan PCB	4 Channels	MF-LAY OUT
LED PCB	Display	ALARM CODE
Daughter board	Daughter board for motion card	IMON-M2-DAUGHTER-V1

IMOtion!-iGOIMON / IMOtion!6.2ELECTRIC DEVICES ON THE BASE PLATE

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6.2.1 FIGURE REPRESENTATION

Figure 6-4 shows the looks of the electric devices on the base plate, Fig.6-5 shows the looks of plinths' cooling fans and air filters.



Fig. 6-4 Electric devices exposition on the base plate



Fig. 6-5 Exposition of plinths' cooling fans and air filters

IMOtion!-iGOIMON / IMOtion!6.2.2 DEVICES DEFINITIONS ON BASE PLATE

The devices definitions of Base Plate are listed in the following Table.

Device of Base Plate			
Name	Spec	Part NO.	
Servo motor	3 Phase/ 220VAC / 400W with brake DC24V	AXIS 1	
Servo motor	3 Phase/ 220VAC / 400W with brake DC24V	AXIS 2	
Gear	Gear ratio 1/5	G1	
Gear	Gear ratio 1/5	G2	
Limit switch	1a1b	10T+	
Limit switch	1a1b	10T-	
Limit switch	1a1b	20T+	
Limit switch	1a1b	20T-	
Photo sensor	24VDC/1a	1ORG	
Photo sensor	24VDC/1a	2ORG	
Fan	AC Fan 230VAC	F1	
Fan	AC Fan 230VAC	F2	
Filter	Plastic fan filter kit	FILTER	

IMOtion!-iGO 6.3 COCKPIT ELECTRIC UNIT EXPOSITION

6.3.1 FIGURE REPRESENTATION

Figure 6-6 shows the looks of the electric devices on the cockpit, Fig.6-7 shows the looks of the limit switch of the gear shifter.

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Fig. 6-6 Electric device exposition on the cockpit

Fig. 6-7 Electric device exposition on the gear shifter

6.3.2 DEVICES DEFINITIONS ON COCKPIT

Device of cockpit					
Name	NameSpec.Part NO.				
DC motor	DC24V 65W 4.5A rpm.1800	U/D MOTOR			
LCD	32"	LCD			
Photo-sensor	24VDC/1B	4+OT			
Photo-sensor	24VDC/1B	4 - OT			
Coin accepter	12VDC/Plus output	COIN 1			
Coin accepter	12VDC/Plus output	COIN 2			
Counter	12VDC/4 Digits	C1			
Bill	24VDC/1a /Plus output	BILL			
Speaker	4"/150W	SP1			
Speaker	4"/150W	SP2			
SUB	SUB/ 3"+3"	SP3			
Joystick	USB Joystick	JOYSTICK			

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Gear shifter	USB Gear Shifter	GEAR SHIFTER
Limit switch	1a1b/ For gear shifter	4LS
Limit switch	1a1b/ For gear shifter	5LS
Push button	16mm/ Green/ 1A1B	FREE
Select switch	16mm / 1A1B	OPERATOR MENU
Push button	1a	PASSENGER STOP
Coin display	PCB	IMON-DOUBLE COIN-V1.1
Extend board	РСВ	IMON-COCKPIT INTERFACE-V1

6.4 REFERENCE

6.4.1 REFERENCE (1): Over Travel recovery procedure

<u>Symptom</u> : The cockpit leans.

<u>Possible Cause</u> : Axis_1 or axis_2 is over traveled.

Error Elimination :

Step 1 : Turn off the power.

Step 2 : Please wait for 90 seconds.

Step 3 : Adjust the switch 1 to be ON as shown in Fig. 6-9.

Step 4 : Turn on the power as shown in Fig. 6-10.

Step 5 : Please see the alarm code on the servo amplifier screen (Fig. 6-8), then follow the below list to eliminate the error.

Axis No.	Alarm Code	Elimination Method
1	ALE14	Press the button "1 DOWN" (Fig. 6-9) about 5 seconds.
•	ALE15	Press the button "1 UP" (Fig. 6-9) about 5 seconds.
2	ALE14	Press the button "2 DOWN" (Fig. 6-9) about 5 seconds.
	ALE15	Press the button "2 UP" (Fig. 6-9) about 5 seconds.

Step 6 : Turn OFF the power.

Step 7 : Please wait for 90 seconds.

Step 8 : Adjust the switch 1 to be OFF as shown in Fig. 6-9.

Step 9 : Turn ON the power.



Fig. 6-8 Motor Servo Amplifier



Fig. 6-9 IMON-M2-DAUGHTER-V2 Card

6.4.2 REREFENCE (2): IMOtion!-iGO startup and shutdown procedure **Power On Procedure :**

Step 1: Please wait for over 3 minutes before last power off.

Step 2: Power On by turning Power on switch, the system will home and IPC will be on in 30 seconds.

Step 3: Error Code shows"0000".

Power Off Procedure :

Step 1: System only can be power off after enter the game.

Step 2: The IPC will be off after Power Off the system.



Fig. 6-10 Power Switch

6.5 SYSTEM ERROR CODE DEFINITION

Please refer to System Error Code Definition on page 51.

6.6 TROUBLESHOOTING LIST

Please refer to Troubleshooting List on page 79.

6.7 COMPONENT REPLACEMENT PROCEDURE LIST

Please refer to Component Replacement Procedure List on page 105.

	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
ERR	OR CODE NUMBER		PAGE
0002	MAGNETIC CONTACT (M3)		52
0003	MAGNETIC CONTACT (M4)		52
0005	CIRCUIT BREAKER (N3) OFF		53
0007	CIRCUIT BREAKER (N5) OFF		53
0008	CIRCUIT BREAKER (N8 OR N	9) OFF	53
0009	CIRCUIT BREAKER (N10) OF	F	53
0012	LCD MONITOR UP/DOWN SE	NSOR OR RELAY A3 FAII	LURE54
0013	LCD MONITOR UP/DOWN SE	NSOR OR RELAY A4 FAII	LURE60
0014	LCD MONITOR UP/DOWN MO	OTOR BRAKE RELAY A5	FAILURE66
0015	SERVO MOTOR BRAKE RELA	AY A6 FAILURE	68
0016	PR2_2 FAILURE	••••••	70
0017	PR3_2 FAILURE	••••••	70
0019	FUSE (F2) WAS BURNED (COI	N ACCEPTOR POWER)	71
0020	FUSE (F3, F4) WAS BURNED(I	CD MONITOR POWER)	71
0021	FUSE(F5) WAS BURNED(MON	ITOR UP/DOWN MOTOR	BRAKE)72
0034	FUSE (F6) WAS BURNED(ORG	SENSOR)	72
0022	FUSE (F7) WAS BURNED(MON	NITOR UP/DOWN SENSOR	
0023	FUSE (F8) WAS BURNED(MON	NITOR UP/DOWN MOTOR	.)73
0026	SERVO MOTOR ALARM COD	Е	
0027	TOUCH "1+OT" SENSOR		
0028	TOUCH "1-OT" SENSOR		73
0029	TOUCH "2+OT" SENSOR		
0030	TOUCH "2-OT" SENSOR		73
0032	MOTION CARD FAILURE		
0033	HOMING FAILURE		
0035	MOTOR ENCODER FAILURE		

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Error Code Number	Definition	Troubleshooting Guide
0002	Magnetic Contact (M3) Failure	 Turn Off N6 and N7 then Turn On Again. If the alarm persists, power Off system. Replace contact (M3). Please refer to Component Replacement Procedure List on page 105: Component#3 Magnetic Contact Replacement Procedure to complete replacement. *Contact IMON / IMOtion! Tech support if problem persists.
0003	Magnetic Contact (M4) Failure	 Power Off system. Replace contact (M3). Please refer to Component Replacement Procedure List on page 105: Component#4 Magnetic Contact Replacement Procedure to complete replacement. * Contact IMON / IMOtion! Tech support if problem persists.
0004	Circuit Breaker (N2) Off	 Possibility: N2 Broken N2 will remain in "On" position. Please refer to Component Replacement Procedure List on page 105: Component#2 Circuit Breaker Replacement Procedure to complete replacement. Switch N2 to "On" but N2 is not really "On". Please follow steps and pictures below to check this.
		(a) Turn On 142
		(b) Use volt meter to check. The meter reads "OL", means that Circuit Breaker is bad.

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		(c) Please refer to Component Replacement Procedure List on page 105: Component#2 Circuit Breaker Replacement Procedure to complete replacement.
0005	Circuit Breaker (N3) Off	 Possibility: N3 Broken 1. N3 remains in "On" position. Please refer to Component Replacement Procedure List on page 105: Component#2 Circuit Breaker Replacement Procedure to complete replacement. 2. Switch N3 to "On" but N3 is not really "On". Please follow steps and pictures as shown on error code 0004 (as same as N2 check procedure to check this).
0007	Circuit Breaker (N5) Off	 Possibility: N5 Broken 1. N5 remains in "On" position. Please refer to Component Replacement Procedure List on page 105: Component#2 Circuit Breaker Replacement Procedure to complete replacement. 2. Switch N5 to "On" but N2 is not really "On". Please follow steps and pictures as shown on error code 0004 as same as N2 check procedure to check this).
0008	Circuit Breaker (N8 or N9) Off	 Possibility: N8 or N9 Broken 1. N8 or N9 remain in "On" position. Please refer to Component Replacement Procedure List on page 105: Component#2 Circuit Breaker Replacement Procedure to complete replacement. 2. Switch N8 or N9 to "On" but N8 or N9 is not really "On". Please follow steps and pictures as shown on error code 0004 as same as N2 check procedure to check this).
0009	Circuit Breaker (N10) Off	 Possibility: N10 Broken 1. N10 remains in "On" position. Please refer to Component Replacement Procedure List on page 105: Component#2 Circuit Breaker Replacement Procedure to complete replacement. 2. Switch N10 to "On" but N10 is not really "On". Please follow steps and pictures as shown on error code 0004 as same as N2 check procedure to check this.

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0012	LCD Monitor	1 st Possibility: A3 Broken Please Power Off systems then replace relay A3
	Sensor or Relay	Please refer to Component Replacement Procedure List on page
	Λ_2 foiluro	105: Component#22 Poplacement Procedure to complete
	AS failure	roplacement
		If the problem persists, continue to 2 nd Possibility
		2 nd Possibility: Sensor Failure
		1 Remove covers on ton side of cocknit Follow steps below
		to check Monitor Un Sensor (4+OT) is working or not
		(a) Remove covers as shown below
		(a) Remove covers as shown below The formation of the sensor (4+OT) is working of not. (a) Remove covers as shown below The formation of the sensor (4+OT) is working of not. (b) While Monitor is at Up position, the LED light on sensor (4+OT) is off but LED light on sensor (4+OT) is on, which is correct.











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		(f) If the problem persists, continue to 3 rd Possibility.
		3 rd Possibility: Control Card (IMON-
		Replace Control Card (IMON-CONTROL_DAUGHTER).
		Please refer to Component Replacement Procedure List on page
		(IMON-CONTROL-DAUGHTER-V2) Replacement
0012	LCD Maritan	Procedure.
0013	LCD Monitor Up/Down Sensor or Relay A4 failure	Please Power Off system then replace relay A4. Please refer to Component Replacement Procedure List on page 105 : Component#33 Replacement Procedure to complete replacement.
		2 nd Possibility: Sensor Failure
		 Remove covers on top side of cockpit. Follow steps below to check Monitor Up Sensor (4-OT) is working or not. (a) Remove covers as shown below







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	(e) If all connectors and wires at Replace sensor. Please refer	bove are well-connected. to Component Replacement
	Procedure List on page 105: Up/Down Sensor Replaceme	Component#24 Monitor
	replacement.	
	3. While Monitor is at top or bot	ttom position, the LED light on
	sensor 4-OT and 4+OT is off, 4-OT 4+OT	which is incorrect.
	Please follow steps below to adj	ust sensor position.
	(a) Move Monitor to top position	n.



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		 (e) Remove Monitor to bottom position. While Monitor is at down position, the LED light on sensor (4+OT) is on but LED light on sensor (4-OT) is off, which is correct, and complete adjustment.
		(f) If the problem persists, continue to 3 rd Possibility.
		3 ^{••} Possibility: Control Card (IMON- CONTROL_DAUGHTER Board) Failure
		Replace Control Card (IMON-CONTROL_DAUGHTER).
		105 : Component#28 Control
		Card(IMON-CONTROL-DAUGHTER-V2) Replacement Procedure
0014	LCD Monitor	1 st Possibility: A5 Broken
	Up/Down Motor	Please Power Off system then replace relay A5. Please refer to Component Replacement Procedure List on page
	Brake Relay A5	105 : Component#33 Replacement Procedure to complete
	Failure	Replacement.
		1 ^{i} the problem persists, continue to 2 ^m Possibility. 2nd Possibility: Check connectors (UD MOTOR)
		Please follow steps and pictures below to check this.
		(a) Check the connector (UD_MOTOR) on
		 Possibility: Cneck connectors (UD_MOTOR) Please follow steps and pictures below to check this. (a) Check the connector (UD_MOTOR) on IMON CONTROL DAUGHTER V2 Card. The wire should

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	<text></text>
	(c) Remove covers on right side of cockpit. Check connector (UD_MOTOR), which should not be pulled out and well- connected.

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		(d) If the problem persists, contin	we to 3 rd Possibility.
		3 rd Possibility: Control Card (II CONTROL_DA Replace Control Card (IMON-CC Please refer to Component Replac 105: Component#28 Control Card(IMON-CONTROL-DAUG Procedure.	MON- UGHTER Board) Failure ONTROL_DAUGHTER). cement Procedure List on page HTER-V2) Replacement
0015	Servo Motor	1 st Possibility: A6 Broken	
	Brake Relay A6 Failure	Please Power Off system then rep Please refer to Component Replace 105:Component#33 Replacement replacement. If the problem persit	blace relay A6. cement Procedure List on page Procedure to complete sts, continue to 2 nd Possibility.
		2 nd Possibility: Connector Loose Please follow steps and pictures b (a) Check connector (1BK+BK-B CONTROL-DAUGHTER-V2 C pulled out and connectors should	e below to check this. BK-2BK+) on IMON- Card. The wire should not be d be well-connected.

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	(b) Check the connector (1-M-Provers first). The wire should be well-control of the should be we	<image/>

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		Control Card (IMON-CP)ease refer to Component Replace Control Card (IMON-CP) CARD (CARD	Thom Thom Thom Thom Thom AUGHTER Board) Failure CONTROL_DAUGHTER). acement Procedure List on page CHTER-V2) Replacement
0016	PR2_2 Failure	1 st Possibility: Control Card (I CONTROL_DA Replace Control Card (IMON-C Please refer to Component Repl 105 : Component#28 Control Card(IMON-CONTROL-DAUC Procedure. If the problem persists, continue 2 nd Possibility: BIT Control Card Replace BIT Control card. Pleas Replacement Procedure List on Control Card Replacement Proc	IMON- AUGHTER Board) Failure CONTROL_DAUGHTER). acement Procedure List on page GHTER-V2) Replacement e to 2 nd Possibility. ard Failure se refer to Component page 105: Component#29 BIT edure to complete replacement
0017	PR3_2 Failure	1 st Possibility: Control Card (I CONTROL_DA	IMON- AUGHTER Board) Failure
	1	 Keplace Control Card (IMON-C — Please refer to Component Repl 	CONTROL_DAUGHTER). acement Procedure List on page
		105 :Component#28 Control	Rev. 1.00

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		Card(IMON-CONTROL-DAUGHTER-V2) Replacement	
		Procedure.	
		If the problem persists, continue to 2 nd Possibility.	
		2 nd Possibility: BIT Control Card Failure	
		Replace BIT Control card. Please refer to Component	
		Replacement Procedure List on page 105: Component# 29BIT	
		Control Card Replacement Procedure to complete replacement.	
0019	Fuse (F2) was	1 st Possibility: Coin Acceptor power connector disconnect	
	burned (Coin	Connect power connector as shown below. (JP1~JP5)	
	Acceptor		
	Power)		
		the second se	
		If the problem persists, continue to 2^{nd} Possibility.	
		Possibility: Fuse Broken	
		Please Power Off system then replace same specification Fuse	
		(F2 (2A)). Please refer to Component Replacement Procedure	
		List on page 105: Component#32 Fuse (F1~F8)	
		Replacement Procedure to complete replacement.	
		If the problem persists, continue to 3 rd Possibility.	
		2 ^{na} Possibility: Control Card (IMON-	
		CONTROL_DAUGHTER Board) Failure	
		Replace Control Card (IMON-CONTROL_DAUGHTER).	
		Please refer to Component Replacement Procedure List on page	
		Card (IMON CONTROL DAUGUTED V2) Paulacement	
		Procedure	
0020	Fuse (F3, F4)		
-	was burned		
	(LCD Monitor	1 st D ₂ - ² L ² L ² + ² - ²	
	Power)	Plaga Dawar Off avatars than rankag same musification E	
		Please Power OII system then replace same specification Fuse $(E_2 (6A), E_4 (2A))$. Places refer to Component Paplacement	
	•	Procedure List on page 105: Component#32 Fuse (F1~F8)	
		Replacement Procedure to complete replacement	

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		If the problem persists, continue to 2 nd Possibility.
		2 nd Possibility: Control Card (IMON-
		CONTROL DAUGHTER Board) Failure
		Replace Control Card (IMON-CONTROL DAUGHTER).
		Please refer to Component Replacement Procedure List on page
		105: Component#28 Control
		Card (IMON-CONTROL-DAUGHTER-V2) Replacement
		Procedure.
0021	Fuse(F5) was	1 st Possibility: Fuse Broken
	burned	Please Power Off system then replace same specification Fuse
	(Monitor	(F5 (1A)). Please refer to Component Replacement Procedure
	Up/Down Motor	List on page 105: Component#32 Fuse (F1~F8)
	Brake)	Replacement Procedure to complete replacement.
		If the problem persists, continue to 2 nd Possibility.
		2 nd Possibility: Control Card (IMON-
		CONTROL_DAUGHTER Board) Failure
		Replace Control Card (IMON-CONTROL_DAUGHTER).
		Please refer to Component Replacement Procedure List on page
		105: Component#28 Control
		Card (IMON-CONTROL-DAUGHTER-V2) Replacement
		Procedure.
0034	Fuse (F6) was	1 st Possibility: Fuse Broken
	burned	Please Power Off system then replace same specification Fuse
	(ORG Sensor)	(F6 (IA)). Please refer to Component Replacement Procedure
		List on page 105: Component#32 Fuse (F1~F8)
		Replacement Procedure to complete replacement.
		If the problem persists, continue to 2 Possibility.
		2 Possibility: Control Card (IMON-
		CONTROL_DAUGHTER Board) Failure
		Replace Control Card (IMON-CONTROL_DAUGHTER).
		105: Component#28 Control
		Card (IMON-CONTROL -DAUGHTER-V2) Replacement
		Procedure
0022	Fuse (F7) was	1 st Possibility: Fuse Broken
0022	hurned	Please Power Off system then replace same specification Fuse
	(Monitor	(F7 (0 5A)) Please refer to Component Replacement Procedure
	Un/Down	List on page 105: Component#32 Fuse (F1~F8)
	Sensor)	Replacement Procedure to complete replacement
		If the problem persists, continue to 2^{nd} Possibility.
		2 nd Possibility: Control Card (IMON-
		CONTROL DAUGHTER Board) Failure
		Replace Control Card (IMON-CONTROL DAUGHTER).
		Please refer to Component Replacement Procedure List on page
<i>I</i>]	MOtion!-iGO	IMON / IMOtion! Operator's Manual
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		105: Component#28 Control
		Card (IMON-CONTROL-DAUGHTER-V2) Replacement
		Procedure.
0023	Fuse (F8) was	1 st Possibility: Fuse Broken
	burned	Please Power Off system then replace same specification Fuse
	(Monitor	(F8 (6A)). Please refer to Component Replacement Procedure
	Up/Down	List on page 105: Component#32 Fuse (F1~F8)
	Motor)	Replacement Procedure to complete replacement.
	,	If the problem persists, continue to 2^{nd} Possibility.
		2 nd Possibility: Motor is stuck while it is moving Up/Down
		Please verify there is noting to stop motor (or monitor tilt) and
		monitor moves upward/downward smoothly. If any, Please
		remove it. If the problem persists, continue to 3 rd Possibility.
		3 rd Possibility: Control Card (IMON-
		CONTROL DAUGHTER Board) Failure
		Replace Control Card (IMON-CONTROL DAUGHTER).
		Please refer to Component Replacement Procedure List on page
		105: Component#28 Control
		Card (IMON-CONTROL-DAUGHTER-V2) Replacement
		Procedure.
0026	Servo Motor	
0026	Alarm Code	Refer to Reference (2) on page 50 to reset system.
0027	Touch "1+OT"	Defer to Deference (1) on more 48 to react system
0027	Sensor	Refer to Reference (1) on page 48 to reset system.
0028	Touch "1-OT"	Refer to Reference (1) on page 48 to reset system
0020	Sensor	
0029	Touch "2+OT"	Refer to Reference (1) on page 48 to reset system.
	Sensor	
0030	Touch "2-01"	Refer to Reference (1) on page 48 to reset system.
	Selisoi	Please replace new Motion Card Please refer to Component
0032	Motion Card	Replacement Procedure List on page 105° Component#31
0052	Failure	Motion Card Replacement Procedure to complete replacement
0033	Homing Failure	1 st Possibility: ORG Sensor Position is incorrect
0055	fioning fanale	The indicator of ORG sensor is on while the system at home
		nosition. If is it not please follow steps below to adjust sensor
		(a) Open covers on base plate
		(b) Adjust the distance between ORG sensor and sensor detect
		block to 2mm.



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		(d) If the problem persists, continue to 3 rd Possibility: ORG Sensor Broken
		Procedure List on page 105: Component#21 ORG Sensor Replacement Procedure to complete replacement.
0035	Motor Encoder Failure (Ignore	1 st Possibility: Ignore this if system is working well.
	this because the system is not affected by this error code)	2 nd Possibility: The alarm can be clear by rebooting system. If the error always appears, please follow steps below to eliminate it. (a) Check the connectors on 2-Axis Card are well-connected.





Definition".

IMON Internet Motion Navigator Corporations, Inc. IMON / IMOtion! IMOtion!-iGO Operator's Manual TROUBLESHOOTING LIST PAGE I ----Power Failure......80 II ----After power on, system is not Homing, IPC is not "ON"......84 III ----After power on, motion base is Homing, but IPC was not ON......86 IV ----After power on, system is not Homing, or after Homing, system is still tilt......89 V ----After start, IPC turn ON, LCD monitor still dark......90 VII ----Gear Shifter failure......92 VIII ----After start, no sound......92 X----Jump out the game right away after enter the game......94 XI ----LCD monitor can not reach top or bottom......94 XII ----After inserting coins , the seatbelt is not fasten, but screen is going downward directly......96 XIII ----After inserting coins, fasten the seatbelt, but the screen is not going downward XV ----LED on the screen is not shinning.....100 XVI ----Error Code Screen is not on.....101 XVII ----Coin Acceptor Screen is not on.....101 XVIII ----Power "ON" or "OFF" switch not work.....102 XIX ----Power On Indicator is not on.....103 XX ----Operator Switch did not work after switching103

	IMOtion!-iGO	IMON / IMOtion! Operator's
Manual	Symptom	Troubloshooting Guido
Tumber	Power Failure	1 Check all Circuit Breakers (N0~N10) are at "ON" position as
Ι	Power Failure	 Check all Circuit Breakers (N0~N10) are at "ON" position as shown below. Image: Control of the system of the system receives power. If P1 indicator is On, which means the system receives power.
		I wo conditions are given, Please follow them.



IMON Internet Motion Navigator Corporations, Inc. IMON / IMOtion! IMOtion!-iGO Operator's Manual (d) If there is power (24VDC) to M2, Please replace a new Magnetic Contact (M2). Please refer to Component Replacement Procedure List on page 105: Component#3 Magnetic Contact Replacement Procedure to complete replacement. 2. Check PR1 indicator is on or not. (a) Check indicator of PR1 as shown below (b) If PR1 indicator is off but A2 is on as shown below, Please replace PR1. Please refer to Component Replacement Procedure List on page 105: Component#33 Relay (A1~A5, PR1~PR3, T2). Replacement Procedure.



	IMON Internet IMOtion!-iGO	Motion Navigator Corporations, Inc. <i>IMON / IMOtion!</i> Operator's
Manual		
II	After power on, system is not Homing, IPC is not "ON"	Condition 1: System with UPS (Serial number from 20602030001B~X20702100070B has UPS.)
		1. Check Circuit Breaker (N4) is on or not (Turn on it if it was off).

2. Please check the Power supply indicator of the BIT control card is on or not.



3. If indicator on BIT card is not on, please check power supply (P2) is on or not.



IMON / IMOtion! IMOtion!-iGO Operator's Manual 2. Check the Power supply indicator of the BIT control card is on or not. **BIT Card** 3. If indicator on BIT card is not on, check power supply (P2) is on or not. 4. If P2 is not on, replace P2. 5. If P2 is on, replace BIT control card. Please refer to Component Replacement Procedure List on page 105: Component#29 BIT Control Card Replacement Procedure to complete replacement. III After power 1. Please check the power indicator in IPC is on or not. Please follow on, motion steps and pictures to check this. base is (a) Check indicator on IPC Motherboard Card is on or not Homing, but IPC was not ON (b) If indicator is not on, check power plug.





_	IMON Internet IMOtion!-iGO	Motion Navigator Corporations, Inc. IMON / IMOtion!	Operator's
Manual		<image/>	<image/>
IV	After power on, system is not Homing, or after Homing, system is still tilt.	1. Please check all connectors as sho	own below

		Motion Navigator Corporations, Inc.
Manual	IMOtion!-IGO	
Manual		2. System touched OT sensor. Refer to Reference (1) on page 55 to
V	After start, IPC turn ON	1 Check power supply P3 indicator. If P3 indicator is off replace
	LCD monitor still dark.	Power supply P3.



	IMOtion!-iGO	IMON / IMOtion! Operator's
Manual	T	
		4. Replace LCD monitor. Please refer to Component Replacement Procedure List on page 105: Component#22 Replacement Procedure to complete replacement.
VI	Joystick failure	1. Verify connectors (Remove screws first)
		2. Please go to the <u>Operator Menu</u> →Joystick Setting to calibrate the Joystick, refer to "Operator Menu".
		Component Replacement Procedure List on page 105: Component#5 Replacement Procedure to complete replacement.
VII	Gear Shifter failure	 Verify connectors (Remove screws first) Verify connectors (Remove screws first) If the calibration fails, please change a new one. Please refer to Component Replacement Procedure List on page 105: Component#6 Gear Shifter Replacement Procedure to complete replacement.
VIII	After start, no sound	 Adjust volume from Operator Menu/Volume Setting to check it, refer to "Operator Menu". Check Audio amplifier volume setting is not zero. Image: Audio amplifier volume setting is not zero.

Manual	IMOtion!-iGO	IMON / IMOtion!	Operator's
Manual		4. Check Power Supply P4 indicator	r is on or not. If not, replace it.
		 5. Replace amplifier. Please refer to Procedure List on page 105: Com Procedure to complete replaceme 6. Replace new speaker. Please refer Procedure List on page 105: Com 	Component Replacement nt. r to Component Replacement nponent#12 Replacement
IX	Emergency STOP button didn't work while playing game	 Make sure Emergency Stop butt Make sure Emergency Stop butt a marginal statement of the statement of th	on is not stuck.

	IMOtion !- iGO	IMON / IMOtion! Operator's
Manual		
		3. Please Enter the <u>Operator Menu→Device Test</u> to check
		Emergency STOP button is good or not, refer to "Operator
		Menu".
		4. If the Emergency STOP button test fails. Please refer to
		Component Replacement Procedure List on page 105:
		Component#16 Emergency Stop Button Replacement Procedure
		to complete replacement.
		D. Replace BIT Control Card. Please refer to Component Performent Proceedure List on page 105: Component#29 BIT
		Control Card Replacement Procedure to complete replacement
Х	Jump out the game right away after	 Disconnect Emergency Stop Button connector and play game again. If it is ok please replace Emergency Stop Button Please refer to
	enter the	Component Replacement Procedure List on page 105:
	game	Component#16 Emergency Stop Button Replacement Procedure to
	8	complete replacement.
		3. Replace BIT Control Card. Please refer to Component
		Replacement Procedure List on page 105: Component#29 BIT
		Control Card Replacement Procedure to complete replacement.
XI	LCD monitor	1. Verify the sensor is not affected by anything.
	can not reach	2. Please follow steps below to adjust sensor position.
	top or bottom	(a) Monitor is at top position.
		(b) Loose the screws which fix the sensor



Manual	IMOtion!-iGO	IMON / IMOtion! Operator's
XII	After inserting coins, the seatbelt is not fasten, but screen is going downward directly	 Verify connectors (Belt). (a) Remove cover on right side of cockpit. Image: Content of the second secon

	IMOtion!-iGO	IMON / IMOtion! Operator's
Manual		(c) Remove cover on left side.
		(d) Check connector (Wire number: BELT). The wire should not be pulled out and well-connected.
		 Please Enter the <u>Operator Menu→Device Test</u> to check the Seat Belt is good or not, refer to "Operator Menu". If test fails, please change a new one. Please refer to Component Replacement Procedure List on page 105: Component#14 Seat Belt Replacement Procedure to complete replacement. Replace BIT Control Card. Please refer to Component Replacement Procedure List on page 105: Component#29 BIT Control Card Replacement Procedure to complete replacement.
XIII	After inserting coins, fasten the seatbelt, but the screen is not going downward directly	 Verify connectors (Belt). (a) Remove cover on left side. (b) Check connector (Wire number: BELT). The wire should not be pulled out and well-connected.



	IMOtion!-iGO	IMON / IMOtion! Operator's
Manual		3. Replace BIT Control Card. Please refer to Component Replacement Procedure List on page 105: Component#29 BIT Control Card Replacement Procedure to complete replacement.
XIV	Can't insert coins	 1. Make sure coin is correct. 2. Enter Operator Menu/Device Test to test it fails or not, refer to "Operator Menu" 3. Verify connectors (Disconnect and connect again)(JP1~JP5) and Coin Image: Control Co

	IMOtion!-iGO	IMON / IMOtion! Operator's
Nanual	LED on the	to Component Replacement Procedure List on page 105: Component#8 Coin Acceptor Control Card Replacement Procedure to complete replacement. 4. If only one, Please replace a new coin acceptor. Please refer to Component Replacement Procedure List on page 105: Component#7 Coin Acceptor Replacement Procedure to complete replacement.
	screen is not shinning	again).

	IMOtion!-iGO	IMON / IMOtion! Operator's
Manual		 Replace LED driver or LED. Please refer to Component Replacement Procedure List on page 105: Component#17 LED and LED Driver Replacement Procedure complete replacement
XVI	Error Code Screen is not on	 Verify connector J7 on BIT Control Card (Disconnect and connect again). Image: Connect again in the second se
XVII	Coin Acceptor Screen is not on	 Screen Replacement Procedure to complete replacement. Verify connector (Disconnect and connect again) (JP1 and Coin).

	IMON Internet Motion Navigator Corporations, Inc.			
	IMOtion!-iGO	IMON / IMOtion!	Operator's	
Manual	Γ			
		2 Replace screen Please refer to Co	wnpopent Benlacement	
	D. ((O))	2. Replace serech: Please left to Co Procedure List on page 105: Con Control Card Replacement Procee	apponent#8 Coin Acceptor dure to complete replacement.	
XVIII	Power "ON" or "OFF" switch not work	1. Verity Power "On" and "Off" con pulled out and connectors should	nnectors. The wire should be not be well-connected.	

	IMOtion!-iGO	IMON / IMOtion!	Operator's
Manual		 Replace new switch. Please referencedure List on page 105: Concernent Procedure to comment Procedure	er to Component Replacement component#10 Power Switch
XIX	Power On Indicator is not on	 Verify Power On indicator conr pulled out and connectors shoul Image: Constraint of the should be sh	ectors. The wire should be not d be well-connected. For the the should be not d be well-connected. For the the should be not d be not d be well-connected. For the the should be not d be not d be well-connected. For the the should be not d be not d be not d be
XX	Operator Switch did not work after switching	 Open cover to verify connector Open cover to verify connector Image: Control Card Place Replacement Procedure List on Replacement Procedure to comp Replace BIT Control Card Place Replacement Procedure List on Replacement Procedure List on Replacement Procedure List on Replacement Procedure to comp 	(Disconnect and connect again) (Disconnect and connect again) (erator (witch) Please refer to Component page 105: Component#15 plete replacement. ase refer to Component page 105: Component#29 plete replacement.
XXI	FreeKey not work	1. Open cover and check connector	rs (Disconnect and connect again)

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Manual			
	2	Go to Operator Menu to test it	
	4	 Replace new FreeKey button P Replacement Procedure List or FreeKey button and Operator S complete replacement. Replace BIT Control Card. Ple Replacement Procedure List or Replacement Procedure to com 	Please refer to Component n page 105: Component#15 Switch Replacement Procedure to ase refer to Component n page 105: Component#29 nplete replacement.

IMON Internet Motion Navigator Corporations, Inc. IMON / IMOtion! IMOtion!-iGO Operator's Manual COMPONENT REPLACEMENT PROCEDURE LIST PAGE Component#1 Power Supply Replacement Procedure......107 Component#2 Circuit Breaker Replacement Procedure......109 Component#3 Magnetic Contact Replacement Procedure.....110 Component#5 Joystick Replacement Procedure......113 Component#6 Gear Shifter Replacement Procedure......115 Component#7 Coin Acceptor Replacement Procedure......117 Component#8 Coin Acceptor Card Replacement Procedure......119 Component#9 Power Supply Indicator Replacement Procedure......121 Component#10 Power Switch Replacement Procedure.....122 Component#11 LED Error Code Screen Replacement Procedure......125 Component#12 Speaker Replacement Procedure.....127 Component#13 Amplifier Replacement Procedure......128 Component#14 Seat Belt Replacement Procedure......130 Component#15 FreeKey Button and Operator Switch Replacement Procedure......133 Component#16 Emergency Stop Button Replacement Procedure......136 Component#17 LED and LED Driver Replacement Procedure......139 Component#18 LCD Control Card Replacement Procedure......145 Component#19 IPC Replacement Procedure......150 Component#20 Motor Servo Amplifier Replacement Procedure......152 Component#21 ORG Sensor Replacement Procedure.....154 Component#22 LCD Monitor Replacement Procedure......155 Component#23 Monitor Up/Down Motor Replacement Procedure......167 Component#24 Monitor Up/Down Sensor Replacement Procedure......169 Component#25 Gas Spring Replacement Procedure......170 Component#26 Rack Replacement Procedure.....174 Component#27 Servo Motor Replacement Procedure......178

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	procedure		•••••	182
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Component #33	Relay (A1~A6,	PR1~PR3 and T2)Replacement Pro	ocedure	189

Component#1 Power Supply Replacement Procedure (For example, P7; P1, P5, P6 can be replaced by same procedure

Sten	Diagrams	Guide
1		Remove wires on Power Supply(P7)
2		Using screwdriver to pull the tenon in order to remove Power Supply
3		Pull out the Power Supply


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Component#2 Circuit Breaker Replacement Procedure (For example, N2; N3-N10 can be replaced by same procedure)

Step	Diagrams	Guide
1		Remove all wires
2		a. Using screwdriver to pull out the tenonb. Remove Circuit Breaker
3		 a. Replace new Circuit Breaker b. Push Breaker all the way down to bottom then fix it c. Connect all wires as shown in step 4

IMON Internet Motion Navigator Corporations, Inc. IMON / IMOtion! IMOtion!-iGO Operator's Manual 4 *This is the detail wire connection of Circuit Breaker (N2-N10). 6, DI1, GND... and so on are wire number. Please connect wires by following these diagrams. N3 N4 N5 N6 DI1-O DI2-O DI3-O DI4 P8 0 0 С С GND GI GND 13 GND N9 N8 DI7-O DI8+O DI9 P9 C О C GND GND GND 11 27 G

Component#3 Magnetic Contact Replacement Procedure (For example, M2; M3 and M4 can be replaced by same procedure)

Step	Diagrams	Guide
1		Remove all wires

IMON Internet Motion Navigator Corporations, Inc. IMON / IMOtion! IMOtion!-iGO Operator's Manual 2 a. Push Contact forward b. Pull Contact up then remove it 3 a. Replace new Contact b. Push Contact all the way down to bottom then fix it c. Connect all wires as shown in step 4 *This is the detail wire connection of Magnetic Contact (P1, P5, P6 and P7). E11, 4 L2, 25... and so on are wire number. Please connect wires by following these diagram PB24 P18 P2 10P DI13. DI14 DI15 0 0 00 Ο Ο 0 0 0 0 0 \cap GND GND GND GND GND O 000 C P8 **M**3 **M2 M4**

-	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
Compon	ent#4 Fans Replacemen	t Procedure	
Step		Diagrams	Guide
1			Remove screws
2			 Disconnect connector of Fan Replace new Fan
3			Fix Fan by tying up screws and connect connector of Fan

	MOtion!-iGO		l' Operator's Manual
nponent#	5 Joystick Replacem	nent Procedure	
Step		Diagrams	Guide
1			Remove screws
2			Pull out Joystick Notice: Be careful, do not damage the Joystick and USB connector
3			Remove two connectors of Joystick

-	IMOtion!-iGO	IMON / IMOtion!	perator's Manual
4			Install new Joystick and connect connectors
5			Put the Joystick into the opening Notice: Do not damage the Joystick
6			Fix Joystick by tying up screws

	IMOtion LiCO	IMON / IMOtion /	Operator's Manual
- Compone		mont Procedure	Operator 3 Maridar
Ston		Diagrama	Cuida
1		Diagrams	Remove screws
2			Remove Gear Shifter and disconnect two connectors (D and R) Notice: Be careful, do not damage Gear Shifter

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 3
 Image: Image

	IMON Internet Motic	on Navigator Corporations, Inc.	
_	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
Compone	ent#7 Coin Acceptor R	eplacement Procedure	
Step		Diagrams	Guide
1			Open the Coin Box, and then remove the connector on the Coin Acceptor
2			Remove screws and nuts Notice: Please keep screws and nuts

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3			 Replace new coin acceptor Fix Coin Acceptor
4			Connect all connectors Notice: Please do not mismatch connector direction

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Compon	ent#8 Coin Acceptor C	ard Replacement Procedure		
Step		Diagrams		Guide
1			1. 2.	Open the Coin Box Remove the screws which fixed Coin Acceptor Card
2			1. 2. N Pl pl th	Remove Card Disconnect connectors otice: ease watch for the astic mat of the back of e control card



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_	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
Compone	ent#9 Power Supply In	dicator Replacement Procedur	e
Step		Diagrams	Guide
1			Turn the LED node on the control panel to left, and then pull up it.
2			Push LED, turn to left then pull out LED.

3

Replace new LED

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4		b a	 Lift the LED on the node, push LED then turn LED to right to lock Put the node into lampshade

Component#10 Power Switch Replacement Procedure

Step	Diagrams	Guide
1	Fig. 1a Fig. 1a	 Remove the power on "switch contactor" on the back of left door of the electric control panel. Please follow the below removal procedure. (1) Fig. 1a shows the location of the "switch contactor". (2) Turn left the "switch contactor" as shown in Fig. 1b. (3) Pull out the "switch contactor" as shown in Fig. 1c. (4) Remove the nut of the switch as shown in Fig. 1d. (5) Remove the switch as shown in Fig. 1e.

-	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
		Fig. 1d	
2	POWER	Fig. 2a	 Replace a new power switch Please follow the below installation procedure. (1).Replace a new power switch as shown in Fig. 2a (2). Fasten the nut of the power switch as shown in Fig. 2b. (3). Pull in the node, and then turn it right to lock the node. The figure as shown in Fig. 2c, 2d

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	Fig. 2c	
	Fig. 2d	

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Component#11 LED Error Code Screen Replacement Procedure

_

Ste	Diagrams	Guide
2 2	Diagrams	Guide Remove Error Code Screen signal connector
3	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	Replace a new Screen

_	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
4			Fix Screen by tying up screws
5			Connect connector and tie it up

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_	IMOtion!-iGO	IMON / IMOtion!	Oper	ator's Manual		
Component#12 Speaker Replacement Procedure						
Step	_	Diagrams		Guide		
1			Ro No Bo th sp ar	emove screws otice: e careful the lid and e weight of the eaker, don't pull part the signal wire		
2			1. 2.	Take out speaker Pull out signal wire		
3			1. 2. 3.	Remove the tap on the signal wire and disconnect it Install a new speaker. Connect the signal wire, and then use tap to cover the metals part.		

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4			Fix the speaker lid and speaker by tying up screws

Component#13 Amplifier Replacement Procedure

Step	Diagrams	Guide
1		Use Slotted Screwdriver to loosen the power wires of the Amplifier
2		 Pull out the signal wire Pull out the AV wire

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3			1. 2.	Remove screws Replace a new amplifier
4			1. 2. No Do Wi	Connect signal and Av wires Connect power wire and fix it otice: o not mismatch the AV ire (follow the color of ires)

INION	Internet iviotion Naviga	ator Corporations, Inc.	
<u>IMOtion</u> .	-iGO L	MON / IMOtion!	Operator's Manual
Component#14 Seat	Belt Replacement P	rocedure	
Step	Diagra	ims	Guide
			 Open the cover at the side of the cockpit Find the connector of the Buckle Disconnect signal wires Notice: Keep screws



1	IMOtion!-iGO		<u>Operator's Manual</u>
			 Unfasten the retractor with a hexangular wrench. Replace a new retractor
2		C	Fix the retractor
3			Close the wiring ducts, and then fasten the cover at the side of the cockpit

	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
Componer	nt#15 FreeKey Butto	n and Operator Switch Repla	cement Procedure
Step		Diagrams	Guide
			Open the coin box, and then loosen the nuts of the Freekey button and the Operator Switch

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2			Open the cover at the side of the cockpit
3	Operator Switch		 Open cable trail, pull out Operator Switch connector Disconnect Operator Switch or FreeKey button connector
4			Replace new Operator Switch or Freekey button



0	perator's	Manual

Component#16 Emergency Stop Button Replacement Procedure

Step	Diagrams	Guide
1		Open coin box
2		Use Slotted Screwdriver to pry the node of the emergency stop button, then pull out the node

IMON Internet Motion Navigator Corporations, Inc. IMOtion!-iGO IMON / IMOtion! Operator's Manual 3 1. Remove the fixed nut of the button 2. Replace a new button



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Component#17 LED and LED Driver Replacement Procedure

Step	Diagrams	Guide
		Power Off the system then pull downward the LCD monitor and fix it with a cable tie
2		Remove casement of the LCD monitor

-	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
3		<image/>	Disconnect LED connectors
4		<image/>	Pull out the LED driver and LED power wire. Disconnect connectors

_	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
5			 Remove LED driver Replace a new LED driver and stick it on the cover
6			Connect all connectors

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7			Pull out the screws of the fixed LED board by hand.
	- 5		
8			Dismantle the LED board

-	IMOtion!-iGO	IMON / IMOtion!	perator's Manual
9			Remove the LED, and stick a new LED
10			Fix the LED board
11		<image/>	a. Install casement b. Connect connectors

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	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
12			Fix the LCD casement
13			Cut the cable tie down
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Operator's Manual

Component#18 LCD Control Card Replacement Procedure

ſ	Ston	Diagrama	Cuida
ŀ	Step	Diagrams	
	1		pull downward the LCD monitor and fix it with a cable tie
	2		Remove casement of the LCD monitor

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_	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
3		<image/>	Disconnect LED connectors
4			Disconnect connectors of control board Notice: Be careful while removing connectors

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-	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
7			Fix the LCD casement
8			Cut the cable tie down

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IMOtion!-iGO IMO Component#19 IPC Replacement Procedure

comp.	Sonent#19 IPC Replacement Procedure			
Step	Diagrams		Guide	
1		1. 2. 3. 4. 5. 6.	Power of system Remove all connectors on IPC Remove IPC power on signal wire Remove IPC Install a new IPC Connect all connectors	
	<image/>			

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2				Connect IPC power on signal wire
				Mother board Serial Number:P5LD2-SE
				Connect IPC power on signal wire Mother board Serial Number:P5LD2-VM

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Component#20 Motor Servo Amplifier Replacement Procedure

Step	Diagrams	Guide
1		Remove all connector (CN1,CN2,UVW,L1L2RS T,Green wire)

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	Ground		
2			 a. Remove servo amplifier b. Replace a new one c. Fix it d. Connect all connectors Notice: All connectors must be fast

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Step	Diagrams	Guide
1		Remove the front, the left and the right plate covers, but <u>DO NOT DISCARD</u> . Save for reassembly after removing from pallet
2		a. Remove ORG Sensor b. Replace a new sensor but don't fasten it
3		Adjust the sensor position. The gap is 1mm.

Component#21 ORG Sensor Replacement Procedure

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4			Connect Fans' connectors and install all covers

Component#22 LCD Monitor Replacement Procedure

Step	Diagrams	Guide
1		Power Off the system then pull downward the LCD monitor and fix it with a cable tie
2		Remove casement Notice: Be careful while removing casement
3		

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4			Cut cable tie down as shown in picture
5			Disconnect all connectors Notice: Be careful while removing connectors

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6			Disconnect all connectors Notice: Be careful while removing connectors		
7			Disconnect all connectors Notice: Be careful while removing connectors		

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8			Disconnect all connectors Notice: Be careful while removing connectors
9			Disconnect all connectors Notice: Be careful while removing connectors
10			 Remove LED driver Disconnect LED connector

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11			Put the wires to the outside of the frame
12			Remove screws
13			Remove screws

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14			Dismantle the base of the LCD control card Notice: Do not damage the electric board
15			Dismantle the LCD monitor carefully Notice: Be careful while removing monitor
16			Please check if the Acryl plank has the dirt or scoring or not. If the Acryl plank has the dirt, please clean it. If the Acryl plank has the scoring, replace a new one. Notice: Do not score it
17			 1. Take out the new LCD monitor. 2. Tear of the LCD protect film. Notice: Please protect the LCD monitor, don't squeeze or scoring it. If the LCD monitor has dust, please clean it



_	IMOtion!-iGO	IMON / IMOtion!	Operator's Manual
20			Fix the monitor
21			 Stick LED driver Connect the signal connecter of the driver (<u>black and red lines</u>) the power connecter of the driver (<u>black and white</u> <u>lines</u>). Notice: If the tape of the driver is broken, please stick a new tape, and then stick the driver on the back of the LCD monitor

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22		Connect all connectors Notice: Be careful while connecting connectors
23		Connect all connectors Notice: Be careful while connecting connectors
24		Connect all connectors Notice: Be careful while connecting connectors

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25			Connect all connectors Notice: Be careful while connecting connectors
26			Connect all connectors Notice: Be careful while connecting connectors
27			Tidy the LDC monitor connector, and then bind the lines with the cable tie.

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28			1. Connect LED connectors 2. Install casement
29			Fix casement
30			Cut cable tie down

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31			Push the monitor upward

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Component#23 Monitor Up/Down Motor Replacement Procedure

Step	Diagrams	Guide
1		Remove covers
2		 a. Remove motor screws b. Remove motor belt and motor
3		 Disconnect motor connector Replace a new motor and connect connector
4		Install motor belt

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5			 Lock the screws, but please don't fasten the screws. Use wrench to stretch the belt, and then stretch the screws.
6			Power ON the system then make sure it goes up/down smoothly
7			Cover up

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Component#24 Monitor Up/Down Sensor Replacement Procedure

Step	Diagrams	Guide
1		Remove covers
2		Remove sensor
3	2~3mm	 a. Replace a new sensor, and then locking it, but please don't fasten it. 2. Adjust the gap between the sensor and LCD monitor to 2~3mm

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Component#25 Gas Spring Replacement Procedure

Step	Diagrams	Guide
1		Remove screws
2		Disconnect LED connectors and remove casement carefully
3	Parts	Remove parts
4	Spacer	Remove screw and spacer on the top of gas spring



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8	1MOllon:-IGO		Install spacer and fix the top of gas spring
9			 a. Install the fixture b. Install spacer and fix the top of gas spring c. Replace gas spring on the other by same procedure
10	Parts		Fix the parts
11			 Connect Led connectors Install monitor casement

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12			Fix the casement

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Sten	ent#26 Kack Replacement Procedure Diagrams	Guide
1		Remove covers
2		a. Pull the monitor down to bottom b. Fix it by using cable tie
3		a. Remove motor screws b. Remove motor and motor belt
4		Disconnect motor connector

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5			Dismantle the transmission
6			Dismantle two racks Notice: Do not scratch the faceplate
7			Install new racks Notice: Do not scratch the faceplate

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8	The both end ma	arks height need to equal	1. 2.	Installing new transmission then lock it by the screw, but don't fasten it The height between gears and racks on left side and right should be equal Make sure the gear is all
	Gear is all t	he way into the rack	5.	the way into the rack then tie it up
0				Cret eshie to an
9			3.	Cut cable the down Move monitor upward
			Co	onnect motor connector

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11			Install motor belt
12			 a. Lock the screws, but please don't fasten the screws. b. Use wrench to stretch the belt, and then stretch the screws.
13			Power ON the system then make sure it goes up/down smoothly
14			Install covers on both sides

Step	Diagrams	Guide
1		Remove the covers on the side
2		a. Remove cover on the f front sideb. Disconnect connector of fan
3		Installing a safety stand Notice: The safely stand must be installing, in order to prevent the cockpit to fall down

Component#27 Servo Motor Replacement Procedure

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4			Disconnect connectors
5			Remove motor by loosing screws
6			Remove motor

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7		B A	Remove screws on A and B Notice: Make sure all screws are removed then disassembly motor
8			Remove motor
9		B	Assembly motor by tying up screws on A and B Notice: Make sure all screws are tied
10			Install the motor
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11			Connect all connectors
12			Install all covers Notice: Make sure the connectors of fan are connected

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Component#28 Control Card (IMON-CONTROL-DAUGHTER-V2) Replacement procedure

Step	Diagrams	Guide
1		Remove wires carefully
2		Remove connectors

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3			Remove Control Card by loosing screws
4			Replace a new one
5			Connect all wires and connectors Notice: Follow the wire and connector number to match the Control Card

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Component#29	BIT Control Card Replacement Procedure	
Sten	Diagrams	Guide
1		a. Remove connectors b. Remove USB and Power connector c. Remove BIT card
2		Replace a new BIT card

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3			 a. Fix the BIT card and ground wire b. Connect USB and Power connectors c. Connect all connectors (Fig. 1) Notice: Make sure all connectors are tied

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Compo		OT L imited	d Switch k	<u>IMON / I.</u> Renlacemen	t Procedu	ire	<u>Operator s iv</u>	lanua
Step	mentriso	OT Linite	Diagra	ams	<u>t i i i occut</u>	II C	Guid	e
1							Remove covers or side	the n the
2							 a. Disconn OT Lim Switch connecto b. Remove c. Replace OT switch d. Connector 	ect ited or it new ch or
3							Install all c Notice: Make surce connectors fan are connected	e the s of

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Step	Diagrams	Guide
1		Pull IPC out
2	Image: state stat	a. Remove screws which fix the Motion Card b. Remove Motion Card and connectors

Component#31 Motion Card Replacement Procedure

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3			Install a new Motion Card and connect connectors. Make sure the jumper on Motion Card is in correct position.
4			Fix the card by tying up screws.

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Component #32 Fuse (F1~F8) Replacement Procedure

Step	Diagrams	Guide
1		Left and remove Fuse
2		Push Fuse into the socket
3	FI AL A2 A3 A4 B B B PRI A6 C PR2 PR3 A5 F2F6 F7 F5 F8 F3 F4	IMON CONTROL DAUGHTER V2 Layout

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	<u>IMOtion!-iGO</u>	IMON / IMOtion!	Operator's Manual		
Compo	Component #33 Relay (A1~A6, PR1~PR3 and T2) Replacement Procedure				
Step		Diagrams	Guide		
I			Left and remove relay		
2			Push relay into the socket		
3	FI A1 A2 PRI A6 PR2 PR3	A3 A4 B B B C A C A C A C A C A C A C A C A C	IMON CONTROL DAUGHTER V2 Layout		